MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2019/2020

DCS5018 – COMPUTER SYSTEMS & APPLICATIONS

(DIT & DBIS)

7 MARCH 2020
2:30 p.m. – 4:30 p.m.
(2 Hours)

INSTRUCTIONS TO STUDENTS:

1. This Question paper consists of **4 pages**.
2. Answer **ALL** questions in **Section A** on the **OMR sheet**.
3. Answer **ALL** questions in **Section B** in the **Answer Booklet**.

Section A: 10 Multiple Choice Questions (10 marks)

*Instruction: Shade your answers on the **OMR sheet.***

1. A car is considered as a(n) _____.
   A. embedded computer
   B. mainframe
   C. supercomputer
   D. portable computer

2. Below are the examples of output devices **EXCEPT** _____.
   A. speaker
   B. scanner
   C. earphones
   D. monitor

3. _____ does not require a backlight to function and draw less power.
   A. OLED
   B. LCD
   C. LED
   D. OLCD

4. Which of the following criteria need to be considered when choosing a monitor?
   A. Screen resolution
   B. Aspect ratio
   C. Brightness
   D. All of the above.

5. Which of the following is **NOT** cloud storage?
   A. Dropbox
   B. Google Drive
   C. OneDrive
   D. iNetwork

6. Each of the website is assigned a(n) unique _____.
   A. physical addresses
   B. MAC addresses
   C. Internet Protocol (IP) addresses
   D. PC addresses

7. Below are the examples of instant messaging **EXCEPT** _____.
   A. Line
   B. WhatsApp
   C. WeChat
   D. Instagram

8. A(n) _____ is the broadcast of audio or video content over the Internet.
   A. webcast
   B. podcast
   C. vlog
   D. blog

Continued.....

9. Ebay.com is an example of _____.
   A. business-to-business (B2B)
   B. business-to-consumer (B2C)
   C. consumer-to-consumer (C2C)
   D. social commerce

10. _____ crawl over the web using multiple "legs" to visit many sites simultaneously.
   A. Spider
   B. Indexer
   C. Search engine
   D. Metasearch

Section B: 4 Structured Questions (40 marks)

*Instruction: Write your answers in the **Answer Booklet**.*

Question 1

a) State **ONE** function and **ONE** example for the following types of productivity software:

   i. Spreadsheet software (1.5 marks)
   ii. Personal information manager (PIM) (1.5 marks)

b) Briefly describe full installation and custom installation.

(2 marks)

c) Briefly explain any **TWO** types of user interface.

(3 marks)

d) CPU activates the basic input/ output system (BIOS) in the first step of the boot process. Briefly explain what BIOS is and provide **ONE** function of BIOS.

(2 marks)

[TOTAL 10 MARKS]

Question 2

a) State **THREE** differences for each power user and mobile user.

(3 marks)

b) Kenny has bought two smaller drives and he combined them using Redundant Array of Independent Disks (RAID) technology. Briefly define what RAID is and describe **ONE** type of RAID.

(2 marks)

Continued.....

c) Compared to home networks, large networks need to be maintained or administered. List **THREE** tasks of network administrator.

(3 marks)

d) Lily tried to use a wireless range extender and dual-band N router to extend her home network signal. State the difference between wireless range extender and dual-band N router.

(2 marks)

[TOTAL 10 MARKS]

Question 3

a) State **ONE** advantage and **TWO** disadvantages of using Voice over Internet Protocol (VoIP).

(3 marks)

b) Tommy found that the images captured by using digital SRL is nicer and clearer than compact "point-and-shoot" camera. List **FOUR** factors that would affect the image quality.

(2 marks)

c) Identify **THREE** sources on how the viruses can infect a computer.

(3 marks)

d) All computers are recommended to enable the firewall as it is designed to restrict access to a network and its computers. State **TWO** ways on how firewall can protect the computers.

(2 marks)

[TOTAL 10 MARKS]

Question 4

a) Briefly explain on how the top-down design works in developing an algorithm

(3 marks)

b) Briefly define compiler and interpreter that are involved in compilation phase of Program Development Life Cycle (PDLC).

(2 marks)

c) Database management system (DBMS) is an application software that can be used to store and analyze data. State **FOUR** main operations of a DBMS.

(2 marks)

Continued.....

d) Briefly define the following types of report that generated by management information system (MIS):

i. Detail report (1 mark)
ii. Summary report (1 mark)
iii. Exception report (1 mark)

[TOTAL 10 MARKS]

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